

ASSIGNMENT 1

Textbook Assignment: "Afloat and Ashore Fuels Division Organization," "General Maintenance Equipment," and "Quality Surveillance," chapters 1, 2, and 3. pages 1-1 through 3-9.

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| <p>1-1. The information contained In the ABF TRAMAN is written to provide minimum coverage of which of the following areas?</p> <ol style="list-style-type: none">1. Examination subjects and military factors2. Occupational standards3. Practical and military factors4. Knowledge factors <p>1-2. What publication contains occupational standards for the ABF rating?</p> <ol style="list-style-type: none">1. List of Training Manuals and Correspondence Courses, NAVEDTRA 120612. Record of Practical Factors, NAVEDTRA 1414/13. Bibliography for Advancement Study, NAVEDTRA 120524. Advancement Handbook for Petty Officers, Aviation Boatswain's Mate (Fuels), NAVEDTRA 71201 <p>1-3. The Quality Surveillance Laboratory is a branch of what work center?</p> <ol style="list-style-type: none">1. Flight deck2. Below deck3. Flight deck repair4. V-4 Division office <p>1-4. Which of the following watches is responsible for the security of the AvFuels system aboard ship?</p> <ol style="list-style-type: none">1. Officer of the Deck2. Junior Officer of the Deck (JOOD)3. Air Department Integrity Watch4. Aviation Fuels Security Watch | <p>1-5. Which manual contains the PQS requirements for the ABF?</p> <ol style="list-style-type: none">1. Air Department Standard Operating Procedures (COMNAVAIRPAC/LANTINST 3100-4)2. CV NATOPS Manual (NAVAIR 00-80T-105)3. PQS for Air Department Aviation Fuels Afloat (NAVEDTRA 43426-4A)4. Aircraft Refueling NATOPS Manual (NAVAIR 00-80T-109) <p>1-6. The Aviation Fuels Division ashore is a division of which department?</p> <ol style="list-style-type: none">1. Supply Department2. Air Department3. Maintenance Department4. Aircraft Intermediate Maintenance Department <p>1-7. What NAVEDTRA manual contains additional information on tools and their use?</p> <ol style="list-style-type: none">1. 10015-B22. 120853. 10067-A4. 16730-B1 <p>1-8. When you use a standard screwdriver, the end of the screwdriver should fill at least how much of the screw slot to ensure proper fit?</p> <ol style="list-style-type: none">1. 100%2. 95%3. 85%4. 75% |
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1-9. When you use a Phillips screwdriver, at least how much of the screw cavity should be filled by the end of the blade to ensure a proper fit?

1. 100%
2. 95%
3. 85%
4. 75%

1-10. What advantage is there in using an adjustable wrench instead of an open-end wrench to tighten or loosen a nut?

1. An adjustable wrench will not damage hard-to-turn nuts
2. An adjustable wrench can be adjusted to fit odd-sized nuts or bolts
3. An adjustable wrench is less likely to be used improperly
4. Either jaw of an adjustable wrench may be adjusted to fit any size or shape nut or bolt

1-11. What important point should you remember when using a pipe wrench?

1. The fixed jaw should provide the twisting force
2. The adjustable jaw should provide the twisting force
3. The fixed jaw should provide the pushing force
4. The adjustable jaw should provide the pushing force

1-12. What type of wrench should you use to loosen or tighten a screw with a recessed head?

1. Strap wrench
2. Socket wrench
3. Spanner wrench
4. Allen wrench

1-13. The size of the opening, for a nut or bolt, is the only factor considered in determining the size of a socket.

1. True
2. False

- A. Speed handle**

B. T-handle

C. Hinged handle

D. Ratchet handle

FIGURE 1-A

IN ANSWERING QUESTIONS 1-14 THROUGH 1-16, SELECT FROM FIGURE 1-A THE SOCKET HANDLE BEST SUITED FOR THE TASK IN THE STATEMENT.

1-14. Rapidly tighten or loosen nuts or bolts, using a series of partial turns .

1. A
2. B
3. C
4. D

1-15. Remove nuts or bolts that are loosened first with another wrench.

1. A
2. B
3. C
4. D

1-16. Apply the most leverage to break loose tight nuts, then remove the nuts rapidly.

1. A
2. B
3. C
4. D

1-17. What is the most commonly used chisel?

1. Cape chisel
2. Round nose chisel
3. Diamond point chisel
4. Flat cold chisel

- 1-18. What type of file is used to enlarge rectangular shaped holes or slots?
1. Square file
 2. Rectangular file
 3. Half round file
 4. Triangular file
- 1-19. What tool is principally used for dressing over bruised or rusty threads on screws or bolts?
1. Hand tap
 2. Rethreading die
 3. Pipe die
 4. Round split die
- 1-20. To remove a broken screw or tap with a spiral extractor, a hole must first be drilled in the screw or tap. How is the proper size of the hole determined? .
1. Visually
 2. The drilled hole is to be of equal width as the shaft of the broken screw or tap
 3. The drilled hole is to be of equal width as the top of the broken screw or tap
 4. The screw extractor will have the size hole required stamped on it
- 1-21. What chain hoist is most commonly used by the ABF?
1. Spur gear chain hoist
 2. Lever operated chain hoist
 3. Come-a-long
 4. Ratchet chain hoist
- 1-22. Most water and aviation fuel lines can be easily repaired using the metallic pipe repair kit. When these repairs are made, in how many minutes can service be restored to the system?
1. 30
 2. 45
 3. 60
 4. 75
- 1-23. When the resins and hardeners of a plastic patch are mixed together, a chemical reaction begins. "Kickover" will occur at or about what peak temperature?
1. 120°F
 2. 135°F
 3. 350°F
 4. 400°F
- 1-24. When applying a simple pipe patch, the woven roving cloth should be wrapped around the void cover approximately how many times?
1. Between 2 and 3
 2. Between 3 and 4
 3. Between 4 and 5
 4. Between 5 and 6
- 1-25. All Navy electrical power tools are required to have what safety feature?
1. Proper grounds
 2. Automatic shut offs
 3. Insulated handles
 4. Built in shields
- 1-26. What indication does the micrometer setting type of torque wrench give when the desired amount of torque is reached?
1. The socket will disengage completely
 2. The indicating needle or pointer will move
 3. A click is given off, followed by the handle freely traveling for a short distance
 4. The handle will lock
- 1-27. What term describes the movement between the spindle and the anvil of a micrometer?
1. Approximate distance
 2. Set distance
 3. Approximate range
 4. Range

- 1-28. The size of a micrometer indicates
1. the size of the largest work it can measure
 2. the size of the smallest work it can measure
 3. if it requires calibration
 4. how often it requires calibration

- A. Inside micrometer

B. Outside micrometer

C. Depth gage

D. Dial indicator

FIGURE 1-B

IN ANSWERING QUESTIONS 1-29 THROUGH 1-31, SELECT FROM FIGURE 1-B THE MEASURING TOOL REQUIRED TO COMPLETE THE TASK IN THE STATEMENT

- 1-29. Measuring the depth of a slot in a pump shaft.
1. A
 2. B
 3. C
 4. D
- 1-30. Measuring the inside diameter of a bushing.
1. A
 2. B
 3. C
 4. D
- 1-31. Measuring the trueness of a pump shaft.
1. A
 2. B
 3. C
 4. D
- 1-32. If you had to find the tightening sequence for the bolts on a pump casing, where should you look?
1. On the upper half of the casing
 2. On the lower half of the casing
 3. In the ABF TRAMAN
 4. In the applicable technical manual
- 1-33. What does surface corrosion look like on painted aluminum?
1. White or gray powdery deposits
 2. Grey or red powdery deposits
 3. An indentation on the surface
 4. The paint appears to lift off the surface
- 1-34. Why is intergranular corrosion more dangerous than other types of corrosion?
1. It spreads faster than other types of corrosion
 2. It is not visible on the surface
 3. It occurs only in the weaker metals
 4. The powder it produces is toxic

- A. Surface

B. Galvanic

C. Intergranular

D. Interior

FIGURE 1-C

IN ANSWERING QUESTIONS 1-35 THROUGH 1-37. SELECT FROM FIGURE 1-C THE TYPE OF CORROSION DESCRIBED IN THE STATEMENT

- 1-35. It spreads through the Interior of the metal.
1. A
 2. B
 3. C
 4. D

1-36. Two different metals are connected and exposed to an electrolyte.

1. A
2. B
3. C
4. D

1-37. The atmosphere produces roughening, etching, or pitting.

1. A
2. B
3. C
4. D

1-38. When finding corrosion on equipment, what should be your first step in treatment?

1. Paint over it with a rust preventive type paint
2. Replace the entire unit
3. Remove the corrosion safely and completely
4. Remove the chips and burrs that collect corrosion residue

1-39. What is the most practical method of controlling metal corrosion?

1. Coat exposed metals with a light coat of grease or oil
2. When painting, apply at least three coats of paint
3. Sandblast metals before painting
4. Consistent preventive maintenance

1-40. Moving parts can be kept free of corrosion by which of the following actions?

1. Painting
2. Applying the proper lubricant
3. Removing the part when not in use
4. Wiping daily with an emery cloth

1-41. What NAVEDTRA manual contains more information on mechanical drawings?

1. 12364
2. 10067-A
3. 10085-B2
4. 10077-F1

1-42. To find the planned maintenance scheduled in your work center for today, you should look at what schedule?

1. Daily schedule
2. Weekly schedule
3. Quarterly schedule
4. Cycle schedule

1-43. Which of the following personnel signs the weekly schedule?

1. LPO
2. LCPO
3. Division officer
4. Department head

1-44. Which of the following forms should you submit to order a replacement maintenance requirement card (MRC)?

1. Feedback Report (category A)
2. Feedback Report (category B)
3. Technical manual deficiency/evaluation Report (TMDER)
4. NAVSEA 4160/1

1-45. For complete information on the 3-M Systems, you need to consult which manual?

1. OPNAVINST 4790.4
2. OPNAVINST 4790.2
3. 3-M-INST 2330.1
4. OPNAVINST 5100.19

1-46. Which manual provides the requirements for an effective QA program?

1. COMNAVAIRPAC/LANTINST 9090.1
2. COMNAVAIRPAC/LANTINST 3100.4
3. OPNAVINST 5100.19
4. OPNAVINST 5090.1

- 1-47. The quality assurance in-process inspection control document is the Controlled Work Package (CWP).
1. True
 2. False
- 1-48. What OPNAVINST is the general reference for mandatory and advisory safety precautions?
1. OPNAVINST 2030.1
 2. OPNAVINST 4790.2
 3. OPNAVINST 5090.1
 4. OPNAVINST 5100.19
- 1-49. Who is responsible for reporting any unsafe condition, equipment, material, or other hazards?
1. Commanding officer only
 2. Division officer only
 3. Work center supervisor only
 4. All hands
- 1-50. How are petroleum fuels in liquid form compared to water?
1. They weigh the same as water at 60°F
 2. They are heavier than water
 3. They are lighter than water
 4. They weigh the same as water at 70°F
- 1-51. Compared to air, petroleum fuels in vapor form have which of the following characteristics?
1. They weigh the same as air at 60°F
 2. They are heavier than air
 3. They are lighter than air
 4. They weigh the same as air at 70°F
- 1-52. Petroleum fuel vapors remaining from a spill are extremely dangerous because of which factor?
1. They readily evaporate
 2. They tend to remain close to the ground
 3. They saturate the ground
 4. They saturate porous materials
- 1-53. What is the NATO number for JP-5?
1. F-40
 2. F-42
 3. F-44
 4. F-46
- 1-54. What is the minimum flash point of JP-5?
1. 128°F
 2. 130°F
 3. 140°F
 4. 142°F
- 1-55. If rags or clothing become soaked with JP-5, the JP-5 becomes highly flammable. What term describes this action?
1. Saturation
 2. Wicking
 3. Candling
 4. Soaking
- 1-56. Because of its high flash point, JP-5 is the only jet fuel authorized for fueling aircraft on Navy ships. When JP-4 or JP-8 is mixed with JP-5, what happens?
1. The flash point of the JP-4 or JP-8 is raised and it becomes safe for shipboard use
 2. The flash point of the JP-5 is lowered and it becomes unsafe for shipboard use
 3. A chemical reaction takes place that makes both fuels unusable
 4. Based on the amount of each fuel in the mixture, either JP-6 or JP-7 is created
- 1-57. What two terms are generally used to measure volatility?
1. Vapor pressure and viscosity
 2. Weight and distillation
 3. Viscosity and weight
 4. Vapor pressure and distillation

- 1-58. What is the minimum percentage of gasoline vapor, by volume, for it to burn or explode?
1. 1%
 2. 3%
 3. 5%
 4. 6%
- 1-59. Because of the range of its vapor pressure, JP-4 almost always has an explosive mixture of vapors above the liquid.
1. True
 2. False
- 1-60. Specific gravity determinations are correlated to what temperature according to ASTM Standard D1250-80?
1. 45°F
 2. 60°F
 3. 75°F
 4. 100°F
- 1-61. What is the measure of a liquid's resistance to flow called?
1. Volatility
 2. Viscosity
 3. Flash point
 4. Solvency
- 1-62. Why is a fuel spill on an asphalt surface more damaging than a fuel spill on a concrete surface?
1. The vapors will spread faster on the asphalt surface
 2. The asphalt surface will lose its color
 3. The fuel will dissolve the asphalt surface
 4. The asphalt will react to the fuel and spontaneously ignite
- 1-63. What term describes the lowest temperature at which a fuel vaporizes enough to form a combustible vapor?
1. Freezing point
 2. Flash point
 3. Auto-ignition temperature
 4. Boiling point
- 1-64. What does the prolonged inhalation of fuel vapors cause?
1. Dizziness
 2. Nausea
 3. Death
 4. All of the above
- 1-65. What is the NAVEDTRA number of the *Standard First Aid Training Course* that should be studied by personnel working with fuels?
1. 10018-B
 2. 10081-D
 3. 12081
 4. 10085-A
- 1-66. From the standpoint of fire and explosion, which fuel is the safest?
1. MOGAS
 2. JP-4
 3. JP-5
 4. JP-8